

IN THE CLAIMS:

Please amend claims 1, 7, 13, 19, 25, 30, 35, 40, 45, 46, 51, 52, 57, 58, 63, 64, 69, 75, 81, and 87 as follows:

1. (Currently Amended) A method, comprising:

receiving information over a communications network;

retrieving customizable validation rules from a hereditary rules library stored in a memory device; and

determining computer data validity by applying the retrieved customizable validation rules to the information.
2. (Previously Amended) The method of claim 1, further comprising highlighting information determined to be invalid by the customizable validation rules.
3. (Previously Amended) The method of claim 1, wherein the customizable validation rules are provided to a client.
4. (Previously Amended) The method of claim 1, wherein the customizable validation rules are provided to a server.
5. (Previously Amended) The method of claim 1, wherein the customizable validation rules are imbedded into a web page.
6. (Previously Amended) The method of claim 1, wherein the customizable validation rules are executable both on a client and server.
7. (Currently Amended) A system, comprising:

means for receiving information over a communications network;

means for retrieving customizable validation rules from a hereditary rules library stored in a memory device; and

means for determining computer data validity by applying the customizable retrieved validation rules to the information.

8. (Previously Amended) The system of claim 7, further comprising means for highlighting information determined to be invalid by the customizable validation rules.

9. (Previously Amended) The system of claim 7, wherein the customizable validation rules are provided to a client.

10. (Previously Amended) The system of claim 7, wherein the customizable validation rules are provided to a server.

11. (Previously Amended) The system of claim 7, wherein the customizable validation rules are imbedded into a web page.

12. (Previously Amended) The system of claim 7, wherein the customizable validation rules are executable both on a client and server.

13. (Currently Amended) Computer executable software code stored on a computer readable medium, the code, comprising:

code for receiving information over a communications network;

code for retrieving customizable validation rules from a hereditary rules library stored in a memory device; and

code for determining computer data validity by applying the retrieved customizable validation rules to the information.

14. (Previously Amended) The medium of claim 13, further comprising code for highlighting information determined to be invalid by the customizable validation rules.

15. (Previously Amended) The medium of claim 13, wherein the customizable validation rules are provided to a client.

16. (Previously Amended) The medium of claim 13, wherein the customizable

validation rules are provided to a server.

17. (Previously Amended) The medium of claim 13, wherein the customizable validation rules are imbedded into a web page.

18. (Previously Amended) The medium of claim 13, wherein the customizable validation rules are executable both on a client and server.

19. (Currently Amended) An apparatus, comprising:

a memory device having at least one region for storing executable program code;

and

a processor, disposed in communication with the memory device, for executing the program code stored in the memory device, wherein the program code, further comprising:

code to receive information over a communications network;

code to retrieve customizable validation rules from a hereditary rules library stored in a memory device;

code to determine computer data validity by applying the retrieved customizable validation rules to the information.

20. (Previously Amended) The apparatus of claim 19, further comprising code to highlight information determined to be invalid by the customizable validation rules.

21. (Previously Amended) The apparatus of claim 19, wherein the customizable validation rules are provided to a client.

22. (Previously Amended) The apparatus of claim 19, wherein the customizable validation rules are provided to a server.

23. (Previously Amended) The apparatus of claim 19, wherein the customizable validation rules are imbedded into a web page.

24. (Previously Amended) The apparatus of claim 19, wherein the customizable validation rules are executable both on a client and server.

25. (Currently Amended) A method, comprising:
identifying data types requiring validation; and
providing customizable validation rules stored in a memory device for the associated data types from a hereditary rules library.

26. (Previously Amended) The method of claim 25, wherein the customizable validation rules are provided to a client.

27. (Previously Amended) The method of claim 25, wherein the customizable validation rules are provided to a server.

28. (Previously Amended) The method of claim 25, wherein the customizable validation rules are imbedded into a web page.

29. (Previously Amended) The method of claim 25, wherein the customizable validation rules are executable both on a client and server.

30. (Currently Amended) A system, comprising:
means for identifying data types requiring validation; and
means for providing customizable validation rules stored in a memory device for the associated data types from a hereditary rules library.

31. (Previously Amended) The system of claim 30, wherein the customizable validation rules are provided to a client.

32. (Previously Amended) The system of claim 30, wherein the customizable validation rules are provided to a server.

33. (Previously Amended) The system of claim 30, wherein the customizable validation rules are imbedded into a web page.

34. (Previously Amended) The system of claim 30, wherein the customizable validation rules are executable both on a client and server.

35. (Currently Amended) Computer executable software code stored on a computer readable medium, the code, comprising:

code for identifying data types requiring validation; and

code for providing customizable validation rules stored in a memory device for the associated data types from a hereditary rules library.

36. (Previously Amended) The medium of claim 35, wherein the customizable validation rules are provided to a client.

37. (Previously Amended) The medium of claim 35, wherein the customizable validation rules are provided to a server.

38. (Previously Amended) The medium of claim 35, wherein the customizable validation rules are imbedded into a web page.

39. (Previously Amended) The medium of claim 35, wherein the customizable validation rules are executable both on a client and server.

40. (Currently Amended) An apparatus, comprising:

a memory device having at least one region for storing executable program code;

and

a processor, disposed in communication with the memory device, for executing the program code stored in the memory device, wherein the program code, further comprising:

code to identify data types requiring validation;

code to provide customizable validation rules stored in a memory device for the associated data types from a hereditary rules library.

41. (Previously Amended) The apparatus of claim 40, wherein the customizable validation rules are provided to a client.

42. (Previously Amended) The apparatus of claim 40, wherein the customizable validation rules are provided to a server.

43. (Previously Amended) The apparatus of claim 40, wherein the customizable validation rules are imbedded into a web page.

44. (Previously amended) The apparatus of claim 40, wherein the customizable validation rules are executable both on a client and server.

45. (Currently Amended) A method, comprising:
providing a hereditary rules library ~~and~~ having an initial parent rule stored in a memory device; and

building customizable validation rules by subclassing members of a hereditary rules library class hierarchy.

46. (Currently Amended) The method of claim 45, further comprising storing subclassed customizable validation rules in the hereditary rules library.

47. (Previously Amended) The method of claim 45, wherein the subclassed customizable validation rules inherit validation logic from a parent rule.

48. (Previously Amended) The method of claim 45, wherein the customizable validation rules are associated with data types.

49. (Previously Amended) The method of claim 45, wherein the customizable validation rules are imbedded into a web page.

50. (Previously Amended) The method of claim 45, wherein the customizable validation rules are executable both on a client and server.

51. (Currently Amended) A system, comprising:

means for providing a hereditary rules library ~~and~~ having an initial parent rule stored in a memory device; and

means for building customizable validation rules by subclassing members of a hereditary rules library class hierarchy.

52. (Currently Amended) The system of claim 51, further comprising means for storing subclassed customizable validation rules in the hereditary rules library.

53. (Previously Amended) The method of claim 51, wherein the subclassed customizable validation rules inherit validation logic from a parent rule.

54. (Previously Amended) The system of claim 51, wherein the customizable validation rules are associated with data types.

55. (Previously Amended) The system of claim 51, wherein the customizable validation rules are imbedded into a web page.

56. (Previously Amended) The system of claim 51, wherein the customizable validation rules are executable both on a client and server.

57. (Currently Amended) Computer executable software code stored on a computer readable medium, the code, comprising:

code for providing a hereditary rules library ~~and~~ having an initial parent rule stored in a memory device; and

code for building customizable validation rules by subclassing members of a hereditary rules library class hierarchy.

58. (Currently Amended) The medium of claim 57, further comprising code for storing subclassed customizable validation rules in the hereditary rules library.

59. (Previously Amended) The method of claim 57, wherein the subclassed customizable validation rules inherit validation logic from a parent rule.

60. (Previously Amended) The medium of claim 57, wherein the customizable validation rules are associated with data types.

61. (Previously Amended) The medium of claim 57, wherein the customizable validation rules are imbedded into a web page.

62. (Previously Amended) The medium of claim 57, wherein the customizable validation rules are executable both on a client and server.

63. (Currently Amended) An apparatus, comprising:

a memory device having at least one region for storing executable program code;

and

a processor, disposed in communication with the memory device, for executing the program code stored in the memory device, wherein the program code, further comprising:

code to provide a hereditary rules library ~~and~~ having an initial parent rule stored in a memory device;

code to build customizable validation rules by subclassing members of a hereditary rules library class hierarchy.

64. (Currently Amended) The apparatus of claim 63, further comprising code to store subclassed customizable validation rules in the hereditary rules library.

65. (Previously Amended) The method of claim 63, wherein the subclassed customizable validation rules inherit validation logic from a parent rule.

66. (Previously Amended) The apparatus of claim 63, wherein the customizable validation rules are associated with data types.

67. (Previously Amended) The apparatus of claim 63, wherein the customizable validation rules are imbedded into a web page.

68. (Previously Amended) The apparatus of claim 63, wherein the customizable

validation rules are executable both on a client and server.

69. (Currently Amended) A method, comprising:

marking data types for associated customizable validation rules from a hereditary rules library stored in a memory device; and

providing validation marked data types.

70. (Previously Amended) The method of claim 69, further comprising building forms with the customizable validation rules associated with marked data types.

71. (Previously Amended) The method of claim 69, further comprising storing forms with the customizable validation rules associated with marked data types.

72. (Previously Amended) The method of claim 69, further comprising providing forms with the customizable validation rules associated with marked data types over a communications network.

73. (Previously Amended) The method of claim 69, wherein the customizable validation rules are imbedded into a web page.

74. (Previously Amended) The method of claim 69, wherein the customizable validation rules are executable both on a client and server.

75. (Currently Amended) A system, comprising:

means for marking data types for associated customizable validation rules from a hereditary rules library stored in a memory device; and

means for providing validation marked data types.

76. (Previously Amended) The system of claim 75, further comprising means for building forms with customizable validation rules associated with the marked data types.

77. (Previously Amended) The system of claim 75, further comprising means for storing forms with customizable validation rules associated with the marked data types.

78. (Previously Amended) The system of claim 76, further comprising means for

providing forms with customizable validation rules associated with the marked data types over a communications network.

79. (Previously Amended) The system of claim 75, wherein the customizable validation rules are imbedded into a web page.

80. (Previously Amended) The system of claim 75, wherein the customizable validation rules are executable both on a client and server.

81. (Currently Amended) Computer executable software code stored on a computer readable medium, the code, comprising:

code for marking data types for associated customizable validation rules from a hereditary rules library stored in a memory device; and

code for providing validation marked data types.

82. (Previously Amended) The medium of claim 81, further comprising code for building forms with customizable validation rules associated with the marked data types.

83. (Previously Amended) The medium of claim 81, further comprising code for storing forms with customizable validation rules associated with the marked data types.

84. (Previously Amended) The medium of claim 82, further comprising code for providing forms with customizable validation rules associated with the marked data types over a communications network.

85. (Previously Amended) The medium of claim 81, wherein the customizable validation rules are imbedded into a web page.

86. (Previously Amended) The medium of claim 81, wherein the customizable validation rules are executable both on a client and server.

87. (Currently Amended) An apparatus, comprising:

a memory device having at least one region for storing executable program code;

and

a processor, disposed in communication with the memory device, for executing the program code stored in the memory device, wherein the program code, further comprising:

code to mark data types for associated customizable validation rules from a hereditary rules library stored in a memory device;

code to provide validation marked data types.

88. (Previously Amended) The apparatus of claim 87, further comprising code to build forms with the customizable validation rules associated with the marked data types.

89. (Previously Amended) The apparatus of claim 87, further comprising code to store forms with the customizable validation rules associated with the marked data types.

90. (Previously Amended) The apparatus of claim 88, further comprising code to provide forms with the customizable validation rules associated with the marked data types over a communications network.

91. (Previously Amended) The apparatus of claim 87, wherein the customizable validation rules are imbedded into a web page.

92. (Previously Amended) The apparatus of claim 87, wherein the customizable validation rules are executable both on a client and server.

93. (Original) A method, comprising:
identifying browser capability;
choosing a validation deployment, wherein the validation deployment comprising:
determining if a browser supports regular expressions, and if so, providing validation rules to a client;

determining if the browser supports non regular expression language, and if so, providing non regular expression language information validation;

determining if the browser does not support non regular expression language, and if not, providing regex enabled validation on a server;

providing the browser with appropriate network location and validation rules; obtaining information from a user; and

validating information with appropriate validation rules stored in a memory device.

94. (Previously Presented) The method of claim 93, wherein the validation rules are imbedded into a web page.

95. (Previously Presented) The method of claim 93, wherein the validation rules are executable both on a client and server.

96. (Original) A system, comprising:
means for identifying browser capability;
means for choosing a validation deployment, wherein the validation deployment comprising:

means for determining if a browser supports regular expressions, and if so, providing validation rules to a client;

means for determining if the browser supports non regular expression language, and if so, providing non regular expression language information validation;

means for determining if the browser does not support non regular expression language, and if not, providing regex enabled validation on a server;

means for providing the browser with appropriate network location and validation rules;

means for obtaining information from a user; and

means for validating information with appropriate validation rules stored in a memory device.

97. (Previously Presented) The system of claim 96, wherein the validation rules are imbedded into a web page.

98. (Previously Presented) The system of claim 96, wherein the validation rules are executable both on a client and server.

99. (Original) Computer executable software code stored on a computer readable medium, the code, comprising:

code for identifying browser capability;

code for choosing a validation deployment, wherein the validation deployment comprising:

code for determining if a browser supports regular expressions, and if so, providing validation rules to a client;

code for determining if the browser supports non regular expression language, and if so, providing non regular expression information validation;

code for determining if the browser does not support non regular expression language, and if not, providing regex enabled validation on a server;

code for providing the browser with appropriate network location and validation rules;

code for obtaining information from a user; and

code for validating information with appropriate validation rules stored
in a memory device.

100. (Previously Presented) The medium of claim 99, wherein the validation rules are imbedded into a web page.

101. (Previously Presented) The medium of claim 99, wherein the validation rules are executable both on a client and server.

102. (Original) An apparatus, the code, comprising:

a memory device having at least one region for storing executable program code;

and

a processor, disposed in communication with the memory device, for executing the program code stored in the memory device, wherein the program code, further comprising:

code to identify browser capability;

code to choose a validation deployment, wherein the validation
deployment comprising:

code to determine if a browser supports regular expressions, and if so, provide
validation rules to a client;

code to determine if the browser supports non regular expression language,
and if so, provide non regular expression information validation;

code to determine if the browser does not support non regular expression
language, and if not, provide regex enabled validation on a server;

code to provide the browser with appropriate network location and
validation rules;

code to obtain information from a user; and

code to validate information with appropriate validation rules stored in a
memory device.

103. (Previously Presented) The apparatus of claim 102, wherein the validation
rules are imbedded into a web page.

104. (Previously Presented) The apparatus of claim 102, wherein the validation
rules are executable both on a client and server.